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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/631,346	07/31/2003	Manindra Agrawal	ITK-001	3456
7590	05/31/2007		EXAMINER	
William L. Botjer Center M P.O. Box 478 Riches, NY 11934			MAI, TAN V	
		ART UNIT	PAPER NUMBER	
			2193	
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		05/31/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<i>Office Action Summary</i>	Application No.	Applicant(s)
	10/631,346	AGRAWAL ET AL.
Examiner	Art Unit	
	Tan V. Mai	2193

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 02 April 2007.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-5,7-11,13,16,18,22 and 23 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) 1-4,7-10,22 and 23 is/are allowed.

6) Claim(s) 5,11,13 and 16 is/are rejected.

7) Claim(s) 18 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ .

5) Notice of Informal Patent Application (PTO-152)

6) Other: ____ .

1. The finality of the rejection of the last Office action, dated 2/1/07, is withdrawn due in view of the newly discovered reference(s). Rejections based on the newly cited reference(s) follow.

2. Claims 5 and 11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As per dependent claim 5, the claim recites a “computer program product”.

However, the parent claim [1] recites a method, i.e., process; resulting hybrid claim.

Similarly noted claim 11.

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 5, 11 and 13 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claims 5 and 11 are software *per se*.

Claim 13 recites a system [without specific physical structures] for performing a mathematical function. The system may be software *per se*, applicants' specification, page 16, lines 5-7.

“[t]o satisfy section 101 requirements, the claim must be for a practical application of the Sec. 101 judicial exception, which can be identified in various ways:

- . The claimed invention “transforms” an article or physical object to a different state or thing.
- . The claimed invention otherwise produces a useful, concrete and tangible result,....”.

See "Interim Guidelines for Examination of Patent Applications for Patent Subject Matter Eligibility" OG Date: 22 November 2005.

Since there is no physical transform to establish a practical application, a useful, concrete and tangible result appears to be lacking. Therefore, claim 13 is clearly directed to a non-statutory process.

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 16 rejected under 35 U.S.C. 103(a) as being unpatentable over Applicants' BACKGROUND in view of Kaltofen et al.

Applicants' BACKGROUND discloses method / apparatus for generating prime number using various primality test techniques. It is noted that the BACKGROUND does not specifically disclose the claimed "**extension ring test**"; however, the claim does not detail the "**extension ring test**" technique. Therefore, the "**extension ring test**" is merely a different label. It is also noted that some "primality test" having "ring" feature, e.g., see Kaltofen et al, abstract "...primality test ...Atkin's method computes ...ring...". It would have been obvious to a person having ordinary skill in the art at the time the invention was made to design or combine Kaltofen et al " primality test ...ring ..." in

applicants' BACKGROUND, thereby making the claimed invention, because the system is a prime number generator using a primality test as claimed.

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Cited references is art of interest.

In Agrawal et al "PRIMES is in P" REFERENCES section, the authors have mentioned "H. W. LENSTRA, JR., Primality testing with cyclotomic rings ..."

7. Due to the NEW grounds of rejection(s), the Office Action is made NON-FINAL.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tan V. Mai whose telephone number is (571) 272-3726. The examiner can normally be reached on Mon-Wed and Fri. from 9:30am to 2:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An, can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is:

Official (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2100.



Tan V. Mai
Primary Examiner